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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,740	11/26/2003	Peter Peumans	082007-0087	7285
33401 7590 102825008 MCDERMOTT WILL, & EMERY LLP 2049 CENTURY PARK EAST			EXAMINER	
			MAYEKAR, KISHOR	
38th Floor LOS ANGELES, CA 90067-3208			ART UNIT	PAPER NUMBER
	,		1795	
			MAIL DATE	DELIVERY MODE
			10/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/722,740 PEUMANS ET AL. Office Action Summary Examiner Art Unit Kishor Mavekar 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 09 July 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) 8. 9 and 11-24 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 and 10 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Response to Amendment

 Applicant's arguments with respect to claims 1-7 and 10 have been considered but are moot in view of the new around(s) of rejection.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vachon et al. (US 6,340,421 B1). Vachon's invention is directed to "a method for microgravimetrically depositing an electroactive species onto an electrode comprising dispensing a solution containing the electroactive species from a microdispenser to form a hanging drop of the solution and contacting the electrode with the hanging drop of the solution, wherein the electrode is electrically coupled with the microdispenser to form an electrochemical cell, and applying a potential to the electrochemical cell" (see abstract). Vachon discloses in Example 1 the use of a small amount of enzyme plating solution (0.5-10 microliters) containing about 6.25 wt% enzymes and in Example 2 with 5 wt% enzymes, wherein enzyme is the electroactive species. The difference between Vachon and the

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above claims is the recited concentration range. The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Vachon's teachings because optimization through routine experimentation has been held to be obvious, In re Aller 105USPQ 233 (see MPEP 2144.05.II.A).

As to the subject matter of claim 2, Vachon discloses that the volume of the solution is from 0.5 to 10 microliters (0.5 to 10 mm³, since 1 cc is equal to 1 ml), which is within the claimed range.

As to the subject matter of claim 3, assuming the drop is in the shape of a sphere, with a volume of 1 mm³ for example, the radius of the sphere is also within the claimed range.

The same is applied to the subject matter of each of claims 4-6 when Vachon discloses the voltage applied between 0.05 to 15 Volts for about 30 to 60 seconds (c. 4, l. 28-38 and Examples 1 and 2).

As to the subject matter of claim 10. Vachon's microdispenser reads on the recited housing.

4. Claims 1-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tray et al. (US 5.855.753), a reference cited in the last Office action. Tray's invention is directed to a method for electrophoretically depositing particles onto an electrode and electrohydrodynamically assembling the particles into crystalline structures. Trau Application/Control Number: 10/722,740 Page 4

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discloses that the method comprises all the steps as claimed (Fig. 1 and col. 4, lines 20-42).

Tray as applied above further disclose that the method is suitable to assemble

macromolecules such as protein and DNA strands (paragraphs 1 and 4 of c. 13), the use of

a dilute solution (c. 4, 1, 55-62), and the construction of materials with structural features

existing on the 1-1000 nm size (c. 1, l. 18-20). The difference between Trau and the above

claims is the recited concentration range. The subject matter as a whole would have been

obvious to one having ordinary skill in the art at the time the invention was made to have

modified Trau's teachings because optimization through routine experimentation has been

held to be obvious, In re Aller 105USPQ 233 (see MPEP 2144.05.II.A). The same is

applied to the subject matter of each of claims 3 and 6.

As to the subject matter of claim 4, Trau discloses it in paragraph 5 of c. 5.

As to the subject matter of claim 5, Trau discloses it in Fig. 5F.

As to the subject matter of claim 10, Trau discloses it in c. 4, l. 20-34.

Response to Arguments

5. Applicant's arguments filed 9 July 2008 have been fully considered but they are

not persuasive in view of the new ground of rejections.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-

1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

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USA OR CANADA) or 571-272-1000.

/Kishor Mayekar/

Primary Examiner, Art Unit 1795